



SPARK GAP

Vol. 39, Issue 1, January 2022 *MARC - Serving Central Indiana Communities*

ON OUR MARC:

This Saturday, January 15, at 8 am we will be holding our monthly MARC meeting at New Hope Church, 5307 W Fairview Rd Greenwood IN 46142 - on Fairview just west of Morgantown road. We will meet in the Activity Center, which is the room we have used in the past on the lower level.

Jason Lopez, N9CRT, Marion County CERT Planning Chief (or designee if necessary) will be our guest speaker this month. He will have a 30 minute CERT presentation after check-ins.

See you Saturday.

73,

Tim

WC9G

CLUB DUES FOR 2022

It is that time of year for your dues for the Mid-State Amateur Radio Club.

The dues have been raised to \$25.00 per year as voted on by members present at the November 2021 M.A.R.C. Meeting. The previous amount for dues was not meeting expenses for the year and this is the first dues increase in many years.

Please check out the M.A.R.C. website and you may pay your dues via PayPal.

This also a good time to update any of your information for club records such as license upgrade, change of address or call sign.

This is also a good opportunity for new amateurs to join our club and join in our club activities for 2022.

Please see Jacki Frederick, KI6QOG M.A.R.C. Treasurer



JANUARY 2022 BIRTHDAYS

WA8SKY – Roy Francis
KC5GHM – Joshua Kiilu
KC9WLL – Joseph Krebsbach
KB9BVN – Brian Murry
KB9UJE – Matthew Payne
KD9REP – Michael Straub
KC9ZMV – Clifford Whitlock
N9EJR – Jim Williams

NEW ARRL ARES STAFF MEMBER

“I am happy to welcome Josh Johnston, KE5MHV to the ARRL staff and to add his talent and knowledge to our team,” said ARRL CEO David Minster, NA2AA. “His contribution will help ARRL continue to support our dedicated volunteers of the Amateur Radio Emergency Service, improve opportunities for training, and advance our relationships throughout the EmComm community.” With extensive experience in inter-agency cooperation and planning, Johnston is well versed in the different aspects of emergency management and leading both professional and volunteer operators. He has experience in communications planning and execution in the field and at the local and state level. As an Arkansas Master Certified Emergency Manager and past Board Member of Arkansas Emergency Management Association, where he served as president for 2 years, Johnston has experience working with government and agency representatives as well as being boots-on-the-ground in the field.

Johnston will be based at ARRL’s headquarters in Newington, Connecticut and will be working with staff and member-volunteers, and coordinating with the ARRL Board’s new Emergency Communications and Field Services Committee (EC-FSC)



A SEASON GREETING

Christmas came early to MARC members that attended the annual holiday pitch-in. Over a dozen club members gathered for food, fun and a chance to take home a genuine White Elephant gift. Lots of breakfast food was served at the New Hope church meeting room.

Following brunch Jack-W8ISH played the annual End of Year music video featuring club members who were active at meetings, Field Day, Goblin Patrol and other club activities. The video is available by contacting Jack at W8ISH@arri.net. He will send you a MP4 copy to watch.

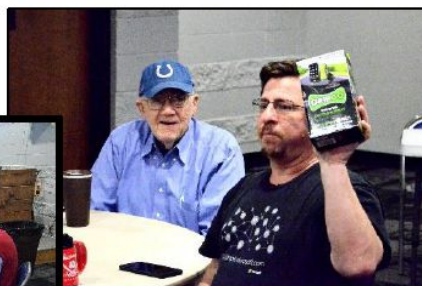


The morning highlight was a gift exchange or rather an opportunity to rid your ham shack of old slightly used equipment. Among the items was a dual band mobile whip antenna. Rhonda-WS9H seemed to covet that special gift. Jack-W8ISH walked away

with a classic Heathkit SWR meter which he traded with Steve-ND9C for his malfunctioning multimeter. Chris-KQ9Y later snagged the SWR meter to add to his collection of classic used radio equipment.



Bruce-W9VAS is ready to party with his new set of beverage coasters while Bob-N9SIU beamed with pride over his box of radio parts. Dennis-N9IKL picked up a used radio. We still don't know who made it. And, Mike-KC9WLR walked away with a coax stripper.



We look forward to an even better year for the Mid-State ARC in 2022. Meetings will be held the THIRD Saturday of each month at New Hope Church AT 5307 Fairview Rd.

-w8ish

Our Mission is to Communicate



In an effort to clarify some confusing issues regarding the Radio Room, Franklin repeater Link sight and the UHF Wires-X repeater, Club president Tim Aldridge-WC9G took the January 4th Tuesday night WebEx



Tech Talk on the road to the Franklin EOC Radio Room. On site were Dennis-N9ILK, Jim-KB9JMU, Jack-W8ISH, Tim WC9G and Chris-KQ9Y. Another four club members joined the discussion via WebEx. The discussion was broadcast via the WebEx internet link so that everyone in person and on line could participate in the meeting. Jim, KB9JMU, MARC Secretary commented, "I thought it was, perhaps, the best Tech Discussion that we've had. Being live, it allowed for faster discussion and having Chris Frederick, KQ9Y, the club's Trustee at the Radio Room, allowed us to fire questions back to the "expert" in real time.

Chris Frederick-KQ9Y walked the group through the purpose of the EOC Radio Room, the history and the capabilities of the emergency radio station. The radio room is used for ARES/RACES communications training, Field Day and as a backup in case the VHF and UHF repeaters are down. The last official use was in October 2021 when Dave Daily-KB9LOT ran a simplex net for the county Goblin Patrol. On Halloween mobile stations sit on I-65 overpasses in Johnson County to prevent anyone from throwing objects onto passing vehicles. The radio room also houses the club APRS Digipeater which helps relay mobile, base and weather station info across Indiana.



For more information download the January 4, 2022 Tech Talk recording from the club Webpage. You should have received the link info from Tim by now.

-w8ish



Winter Field Day

January 29/30, 2022



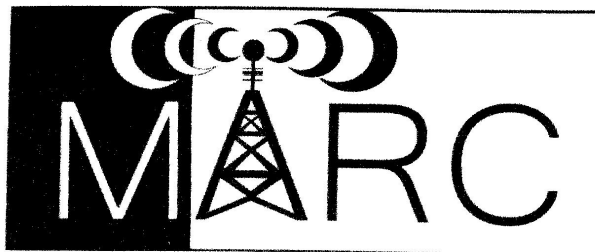
When: Jan 29/30 2022 Time: 1900 UTC (2pm EST) Saturday to 1900 UTC (2pm)

Sunday Where: WorldWide Website: www.winterfieldday.com

Email: WFDA@winterfieldday.com

If you are serious about emergency communications as we are; we welcome you to join us for our yearly event. We are sure you will find this event a pleasant change and challenge to that of a normal Summer Field Day!

More information about this event at the MARC Monthly Meeting this Saturday
January 15, 2022.



Ham Radio Ads from the past:

Drake R-7 Synthesized Receiver Spans the Spectrum



from VLF thru HF!

Full general coverage reception, 0-30 MHz, with no gaps or range crystals required. Continuous tuning all the way from vlf thru hf. Superb state-of-the-art performance on a.m., ssb, RTTY, and cw—and it transceives with the Drake TR-7.

Features of Drake R-7 Model 1240 Digital Readout Receiver

100% solid state broadband design, fully synthesized with a permanently tuned oscillator (PTO) for smooth, continuous tuning. • **Covers the complete range 0 to 30 MHz** with no gaps in frequency coverage. Both digital and analog frequency readout. • **Special front-end** employing a high level double balanced mixer and 40 MHz "up-converted" 1st IF for superior general coverage, image rejection and strong signal handling performance. • **Complete broad-band passband filters** are included that operate from 10 kHz up. External air preselectors are not required. • **10 dB pushbutton-controlled broadband prescaler** can be activated on all ranges above 1.0 MHz. Low noise design. • **Various optional selectivity filters** for cw, RTTY and a.m. are switch-selected from the front panel. • **Full filter standard.** • **Special new low distortion "synthesizer" a.m. detector** provides superior international shortwave broadcast reception. This new technique permits 3 kHz a.m. subcarrier response with the use of a 4 kHz filter for better interference rejection. • **Tuning IF notch filter** effectively reduces heterodyne interference from nearby stations. • **The famous Drake full electronic passband tuning system** is employed, permitting the passband position to be adjusted for any selectivity filter. This is a great aid in interference rejection. • **Three age time**

constants plus "OFF" are switch-selected from the front panel. • **Complete transceiver separate functions** when used with the Drake TR-7 transceiver are included, along with separate R-7 R.I.T. control. • **Special multi-function antenna selector** 30 ohm switcher is switch-selected from the front panel, and provides simultaneous dual receive with the TR-7. This makes possible the reception of two different frequencies at the same time. • **Man and alternate antennas and external converters** may also be selected with this switching network. • **The digital readout of the R-7** may be used as a 100 MHz counter, and is switched from the front panel. Access this rear panel connector. • **The built-in power supply** operates from 100, 120, 200, 240 V a.c., 50/60 Hz, or optional 13.8 V d.c. • **The R-7 includes a built-in speaker**, or an external Drake MS-7 speaker may be used. • **Built-in 30 kHz calibration** for calibration of analog dial. • **Low level audio output** for local recorder. • **Up to eight crystal controlled band channels** can be selected. (With Drake R-7 installed.) • **Optional Drake 100-TA Noise Blanker** available. Provides true impulse type noise blanking performance. • **Size:** (excluding feet, knobs and connectors) 13.0" W x 4.0" H x 10.0" D (34.6 x 11.6 x 25.0 cm). • **Weight:** 16.4 lbs (8.34 kg).

Drake R-7 Model 1240—0-30 MHz General Coverage, Digital Readout\$1295.00
Drake R-7 Model 1241—Amateur Bands (160-10 meters), Analog Dial\$1100.00

Specifications and prices subject to change without notice or obligation.

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simplicity of operation. Everything has been thought of: no TVI, VOX, calibrate on any mode, extremely stable VFO, etc.

\$450.00



broadcast band 550-1600 kc plus three short-wave bands 1600 kc to 30 mc. Wide slide-rule dial, separate bandspread tuning condenser, band selector, main tuning, bandspread tuning, standby/recv, BFO/Selectivity, AC on/off, 455 kc I.F.; power supply 105/125 v 50/60 cycle ac/dc, 30 watts. Gray steel cabinet with silver trim. 13 1/2" x 6" x 8 3/4".

\$69.95



controls are: Function Off-Standby-AM-CW-SSB; Phone Jack (disconnects speaker); Band Selector; Calibration Oscillator; RF Gain; Automatic Noise Limiter; Selectivity control which varies IF selectivity on AM and BFO on CW and SSB; Audio Gain; Antenna Trimmer; Calibration Reset; Main Tuning; and all this in only 14 lbs.

\$124.95



Simple sideband for optimum SSB reception; 100 kc calibrator; T-notch filter for removing QRM; bandspread almost the width of the receiver for each band; and dozens of other features.

\$279.50



a constant ratio of dot-to-space-to-dash over the entire speed range of 8-18 wpm and 18-50 wpm. A high voltage transistor is used to key the transmitter.

\$59.95



100 watt linear amplifier. Designed to operate with HT-37, this linear will match any exciter delivering from 20-100 watts. Runs 1000 watts PEP on SSB, 800 watts on CW and 400 watts on AM phone.

\$395.00



Full fidelity response or voice frequencies for communications.

\$19.95



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• Yaesu Memorizer 227r 2 meter mobile vintage	\$ 75
• 2-Motorola CDM750 Low band, 60 w, 4 freq.	\$95 ea/\$150 both
• Azden PCS-4000 2meter transceiver	\$ 50
• KDK-2033 2 meter w/ original box, mic and manual	\$ 50
• Radio Shack HTX-212 2m w/ original mic and manual	\$ 60
• Vintage Regency HR-212 12 ch 2m transceiver	\$ 50
• Vintage Halicrafter CB-7 6 ch base w/orig mic and manual	\$ 50
• Vintage American Bell WWII era headset very good cond.	\$ 50
• Uniden Pro510xl 40ch CB NIB	\$ 40
• Yaesu FT 727R 2m/70cm HT w/ orig. box and manual	\$ 75
• Icom IC-03AT 220mhz HT w/ original box and manual	\$ 75
• Icom IC-02AT 2m HT w/expanded receive frqs.	\$ 60
• 2-Radio Shack HTX 202 Vhf HTs w/manual	\$50 ea/\$90 for both
• 2-Radio Shack HTX 404 Uhf HTs	\$50 ea/\$90 for both
• Anytone AT-D868UV DMR HT w/charger and manual	\$150
• Uniden BC200xlt HT scanner w/orig. box and manual	\$ 40
• Hustler 4BTV 4 band HF 20ft vertical ant. ex cond.	\$200

10 % of purchases by members will go to MARC!

Contact: Mike KD9EDP at 317-443-8249 or mdsmithco@juno.com

For Sale: RigExpert AA-1400 antenna analyzer \$535

Purchased End of November 2021

RigExpert AA-1400 are powerful antenna analyzer, designed for testing, checking, tuning or repairing antennas and antenna feedlines. Graphical SWR (Standing Wave Ratio) and impedance, as well as Smith/polar chart displays, are key features of this analyzer which significantly reduce the time required to adjust an antenna. Easy-to use measurement modes, as well as additional features such as connection to a personal computer make RigExpert AA-1400 attractive for professionals and hobbyists.

The following tasks are easily accomplished by using this analyzer:

- Rapid check-out of an antenna
- Tuning an antenna to resonance
- Antenna SWR and impedance measurement and comparison before and after specific event (rain, hurricane, etc.)
- Making coaxial lines or measuring their parameters
- Cable testing and fault location
- Measuring capacitance or inductance of reactive loads

Contact Tim, WC9G at WC9G@ARRL.net

2022 Indiana Hamfest Schedule as of 11 January 2022

February 12, 2022

Hendricks Co. Amateur Radio Society

7 pm to 1 pm

Hendricks Co Fairgrounds

1900 E Main St Danville IN

February 26

LaPorte County Amateur Radio Club

Cabin Fever Hamfest

LaPorte Civic Auditorium

1001 Ridge St.

LaPorte, IN

February 26, 2022

Dugger ARC Hamfest

Dugger Community Building

834 S Hicum St, Dugger IN

March 12, 2022

Wabash Valley ARA Bunny Fest

Clay County 4-H Fairgrounds

6550 North State Road 59 Brazil, IN <https://www.w9uuu.org/hamfest.php>

August 6, 2022

Elkhart East Hamfest

8am – 2 pm

21565 Executive Parkway Elkhart, IN

<https://elkharteasthamfest.com/>

August 13, 2022

Hendricks Co. Tailgate

Avon United Methodist Church

6550 E US 36 Avon, IN

August 13, 2022

Auburn Hamfest

Auburn Cord Duesenberg Museum

1600 Wayne Street

9 am – 1 pm

Auburn, IN

November 26, 2022

Wabash Valley ARA Turkey Fest

Clay County 4-H Fairgrounds

6550 North State Road 59 Brazil, IN

<https://www.w9uuu.org/hamfest.php>

Clubs that are planning a 2022 hamfest, please send in your hamfest application to ARRL soon, so it can get listed on the ARRL website and with the ARRL Indiana. Please use the link:

<http://www.arrl.org/hamfest-convention-application>

Also send a copy of the flyer to kc9rpx@arrl.net So it can be posted in the ARRL Indiana Section newsletter, and Social Media site.

2022 National Hamfest Schedule

02/10/2022 - 02/13/2022

Orlando HamCation, 2022 ARRL National Convention

Location: Orlando, FL

Type: ARRL Convention

Sponsor: Orlando Amateur Radio Club

Website: <https://www.hamcation.com>

<http://www.arrl.org/expo>

05/20/2022 - 05/22/2022

Dayton Hamvention

Location: Xenia, OH

Type: ARRL Hamfest

Sponsor: Dayton Amateur Radio Association

Website: <http://hamvention.org>

2022 Cancelled Central Division Hamfests / Events

Wheaton, Illinois Community Radio Amateurs in the Chicago area Virtual Forums on Saturday, January 15, and the Mid-Winter Hamfest on Sunday, January 16th, has been CANCELLED.

If your local hamfest is cancelled due to covid concerns, please let ARRL HQ, Carl K9LA, and myself know so we can spread the word to the ARRL Indiana Section and the Central Division.

K9LA@arrl.net

KC9RPX@arrl.net

ARRL Indiana Section

Section Manager: Jimmy L Merry Jr, KC9RPX



MID-STATE AMATEUR RADIO CLUB

The Mid-State Amateur Radio Club meets the **THIRD SATURDAY** of each month
at the New Hope Church 5307 West Fairview Road, Greenwood, IN 46143.

See our website, www.midstatehams.org, for maps on how to get to our meeting.

Everyone is welcome; you do not have to be a *HAM* to attend our meetings or a member of the club.

W9MID Repeater:

146.835/
146.235 MHz
(151.4 Hz PL Tone)

Club Officers:

President: Tim Aldridge - WC9G
Vice President: Rhonda Curtis - WS9H
Secretary: Jim Adams – KB9JMU
Treasurer: Jacki Frederick - KI6QOG
Repeater Trustee - Chris Frederick – KQ9Y

W9MID Repeater:

443.525/
448.525 MHz
(151.4 Hz PL Tone) YEASU SYSTEM FUSION (C4FM)

Weekly Net: Sunday evening 7:00 PM ARES/RACES members and ALL RADIO AMATEURS
146.835/146.235 MHz (151.4 Hz PL Tone)

The Official Newsletter of the Mid-State Amateur Radio Club

P.O. Box 836
Franklin, Indiana
46131

Spark Gap Editor: Robert LaGrange N9SIU

Please send your articles to my email: n9siu@yahoo.com no later than the 2nd week of the month.



Thanks to the New Hope Church for the use of their building for meetings and testing.